

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number  
**WO 2004/093720 A2**

- (51) International Patent Classification<sup>7</sup>: **A61F**
- (21) International Application Number:  
PCT/IL2004/000340
- (22) International Filing Date: 21 April 2004 (21.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/464,120 21 April 2003 (21.04.2003) US
- (71) Applicant (for all designated States except US): **GALIL MEDICAL LTD.** [IL/IL]; Yokneam Industrial Park, P.O. Box 224, Yokneam, 20 692 (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **HILLELY, Ron** [IL/IL]; Af-A1-Pe Chen 3, IL-30900 Zichron Yaakov (IL).
- (74) Agent: **G.E. EHRLICH (1995) LTD.**; 11 Menachem Begin Street, Ramat-Gan 52 521 (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS AND METHOD POSITIONING A THERAPEUTIC PROBE WITH RESPECT TO A THERAPEUTIC TARGET

(57) Abstract: The present invention is of a device and method for positioning a plurality of therapeutic probes with respect to a treatment target within a patient. The method comprises the steps of a) utilizing standard imaging modalities to direct an orientation probe to the target, b) rigidly affixing to the inserted orientation probe a template comprising one or more probe guides, thereby orienting template and probe guides with respect to the target, then c) inserting one or more therapeutic probes through probe guides of the template and into the patient, thereby guiding the therapeutic probes to the treatment target.